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## **A model for evaluation of enterprise architecture quality**

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### **Abstract:**

Today, most organizations use an enterprise architecture (EA) approach as a tool to increase the power of management on the organization's information technology. Enterprise architecture is a set of processes that helps an organization to translate its vision into an effective change in the organization's scope by providing a clear understanding of its current state. The purpose of this research is to identify EA quality attributes and its evaluation indicators in the organization. This study was conducted by using mixed method, including qualitative and quantitative parts. In the qualitative section, a variety of EA evaluation indicators were identified by a systematic literature review (SLR) approach, then in the quantitative section the survey data were collected by a questionnaire prepared based on the qualitative part and then exploratory factor analysis (EFA) and confirmatory factor analysis (CFA) were performed. This research presents an EA evaluation model that has seven main quality attributes including alignment and integrity, quality of EA products and services, security, maintainability and portability, reliability, reusability and scalability, and 30 indicators that address all aspects of enterprise architecture. Through this model, organizations can evaluate the quality of implemented EA or AS-IS status of EA and take steps to improve it.

**Keywords:** Enterprise architecture Enterprise architecture measurement Enterprise architecture quality attributes Enterprise architecture evaluation

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